Minutes

of the

IFIP TC2 Meeting

Virtual, July 9, 2024

(Post-meeting draft, 29-08-2024)

Jacques Carette TC2 Chair
Michael Goedicke & Peter Höfner,
TC2 Vice-Chairs
Julia Lawall, TC2 Secretary

Technical Committee 2:
Software – Theory and Practice
International Federation for Information Processing

https://wiki.uni-due.de/ifip/

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Executive Summary

IFIP TC2 Meeting, July 9, 2024, Zoom

IFIP TC2 officers, elected unanimously in 2023 by TC2 and then appointed by the IFIP president.

Chair: Prof. Jacques Carette, Department of Computing and Software, Faculty of Engineering, McMaster University, Hamilton, Ontario L8S 4K1, Canada

Vice-Chairs: Prof. Peter Höfner, Research School of Computer Science, Australian National University, Canberra, Australia and Michael Goedicke, Universität Duisburg-Essen, Essen, Germany

The meeting was presided by Jacques Carette (elected chair in 2023), Michael Goedicke (elected vice-chair in 2022) and Peter Höfner, (elected vice chair in 2023) and Julia Lawall (elected secretary in 2022)..

New chairs of working groups. WG 2.2: Barbara König, **WG 2.3:** Rajeev Joshi, **WG 2.4:** Anders Møller, **WG 2.5:** Andrew Dienstfrey, **WG 2.9:** Andrea Zisman, **WG 2.14:** Stefan Schulte, **WG 2.15:** Tiziana Margaria.

New members of working groups. TC2 Chair appointed, as approved by TC2, 19 new members of working groups. **WG 2.1:** Pierre-Evariste Dagand (FR), Niki Vazou (ES), **WG 2.2:** Delia Kesner (FR), **WG 2.4:** Jan Vitek (US/CZ), Alessandra Gorla (ES), Cristian Cadar (UK), Lin Tan (US), Jonathan Bell (US), Yingfei Xiong (CN), **WG 2.7:** Jan Van den Bergh (BE), **WG 2.8:** Niki Vazou (ES), **WG 2.9:** Dalal Alrajeh (UK), **WG 2.11:** Friedrich Steimann (DE), **WG 2.16:** Christos Dimoulas (US), Cyrus Omar (US), Tomas Petricek (CZ), Joe Politz (US), Ben Titzer (US), Tobias Wrigstad (SE) .

Removed members of working groups. 7 people have been removed from TC2 working groups. **WG 2.1:** Bernhard Möller, Andrew Black, **WG 2.4:** Ondrej Lhotak, Ina Schaefer, Thomas Wuerthinger, **WG 2.5:** James (Jim) Pool, **WG 2.11:** Tony Sloane,

Conversion to emeritus membership. 9 members of TC2 working groups have become emeritus members: **WG 2.1:** Bernhard Möller, Andrew Black, **WG 2.9:** Jeff Kramer, Carlo Ghezzi, John Mylopoulus, Kevin Ryan, **WG 2.16:** Crista Lopes, Mark Miller, Erik Ernst.

New national representatives. Patrick Janssen, Sweden

Removed national representatives. None

New working group: None

IFIP World Computer Congress. None.

Upcoming TC2 conferences: ESOCC 2025 (WG 2.14), FSEN 2025 (WG 2.2).

Next TC2 meeting: Plans will be made in January 2025. The meeting may be virtual or may be co-located with a conference.

Manfred Paul Award: "Extraction of Validating Shapes from very large Knowledge Graphs" by Kashif Rabbani (Aalborg University), Matteo Lissandrini (Aalborg University), Katja Hose (TU Wien, Aalborg University), VLDB, 2023.

1. Registration and agenda

The meeting took place virtually, via Zoom, hosted by Jacques Carette at McMaster University.

The meeting started, with introductions, at 15:00 CEST. Jacques Carette, Chair of IFIP TC2, welcomed all the participants and asked the Secretary to present results of registration. The following people were present at the meeting (in alphabetical order):

Rep.body	First Name	Surname	Present ?	#Votes
Australia	Jo	Dalvean	Y	1
ACM	Will	Tracz	Y	1
CLEI	Emilio	Insfran	Y	1
Denmark	Fritz	Henglein	Y	1
France	Julia	Lawall	Y	3
Germany	Michael	Goedicke	Y	1
Italy	Paolo	Ciancarini	Y	1
Japan	Atsushi	Igarashi	Y	1
Netherlands	Wouter	Swierstra	Y	1
Slovakia	Maria	Bielikova	Y	1
WG 2.1	Peter	Hoefner	Y	1
WG 2.2	Antonin	Kucera	Y	1
WG 2.3	Rustan	Leino	Y	1
WG 2.4	Philip	Levy	Y	1
WG 2.5	Ronald	Cools	Y	1
WG 2.6	Paolo	Ceravolo	Y	1
WG 2.7	Davide	Spano	Y	1
WG 2.9	Andrea	Zinsman	Y	1
WG 2.11	Jacques	Carette	Y	2
WG 2.14	Stefan	Schulte	Y	1
WG 2.16	Tijs	Van der Storm	Y	1
#Voting participants:				24
Non-voting Guests: 0				

The following people were not able to attend but they nominated their proxies:

Rep.body	First Name	Surname	Present ?	Proxy
2.6	Robert	Wrembel	N	Paolo Ceravolo
2.17	Ina	Schaefer	N	Julia Lawall

Austria	Stefan	Biffl	N	Julia Lawall
Ukraine	Nyk	Sydorov	N	Jacques Carette

The following people were not able to come and did not nominate a proxy:

Rep.body	First Name	Surname	Present?	Proxy
South Africa	Bruce	Watson	N	none

The following people did not respond to the invitation:

Rep.body	First Name	Surname	Present?	Proxy
Slovenia	Marko	Bajec	No	None
Portugal	Fernando	Brito e Abreu	No	None
Italy	Paolo	Ciancarini	No	None
Argentina	Marcelo	Frias	No	None
Bulgaria	Sylvia	Ilieva	No	None
WG 2.13	Stefano	Zacchiroli	No	None
SEARCC	Elizabeth A.	Kemp	No	None
Switzerland	Peter	Kropf	No	None
Brazil	Julio	Leite	No	None
India	Bhanumati	Shekhar	No	None
Serbia	Nenad	Stefanović	No	None
Finland	Reima	Suomi	No	None
WG 2.15	Tiziana	Magaria	No	None
Czech Republic	Premek	Brada	No	None
WG 2.8	Peter	Thiemann	No	None

This year, we have followed the rule of no more than 3 proxy votes per person.

Next, Jacques Carette presented the proposed agenda:

No	Time	Item
	15:00	Connection to Zoom
1	15:08	Welcome, Roll call/intros, agenda, prior meeting minutes
2	15:15	Changes in TC2 membership (Country Representatives, WG chairs)
3		Action items from the previous meeting
4	15:34	Updates from the 2023 IFIP General Assembly
5	15:39	Budget 2024 and 2025
6	15:42	Awards and distinctions
7	15:48	Reports from TC2 WGs (WG chairs)
8	16:55	WG proposal on AI
9	17:14	Future meetings and events
10	17:16	Other issues
11	17:19	Closing

The agenda was accepted unanimously. Last year's minutes were accepted.

2. Changes in TC2 membership

New Chairs

WG 2.2: Barbara König**, WG 2.3:** Rajeev Joshi, **WG 2.4:** Anders Møller, **WG 2.5:** Andrew Dienstfrey, **WG 2.9:** Andrea Zisman, **WG 2.14:** Stefan Schulte, **WG 2.15:** Tiziana Margaria.

These were all approved.

New Country Representatives

Patrick Janssen, Sweden

3. Action items from the previous meeting

1. Michael Goedicke has contacted some people who are interested in redeveloping a 2.10, but the discussions are not complete. He hope to conclude within the coming year.

2. Michael Goedicke is still working on research data management and welcomes outside participation.

3. Jacques reports that there is not currently funding available at the IFIP level for travel grants. Apparently IFIP is not doing well financially. There is an interest among the TC2 membership for this issue, ie to improve diversity. Michael Goedicke suggested that the issue could be brought up at the general assembly.

4. Some discussion about in-person meetings. Some people would have to travel quite far. Previously meetings were a full day and included a keynote, opportunities to meet new people, etc.

5. Numerous WG officers needed to be replaced. This has all been done.

4. IFIP update

IFIP's budget is currently negative. Need to generate more funds. TC2 does not generate much money, but does not cost much money either.

4.1 Emeritus status

As a reminder, at the IFIP level, emeritus members are not listed as members. On the other hand, if the working group has a member list on their web page, they should list their emeritus members and designate them as such.

4.2 Other issues

Keynote

None, due to the shortened virtual meeting format.

Election of TC2 officers

None

5. Budget for 2022 and 2023

Funds available at the end of each year:

Budget details are found in the attached slides from Ina.

In 2023, we had no royalties and no event proceeds, of which we receive 75%, ie 0 euros. This led to a total income for 2023 of 0 euros.

In 2023, we had no expenses. Our current balance is 11,949.54 euros.

For 2023, we proposed the following budget:

- 300 Euros - Income Royalties (Item 3)
- 300 Euros - Income Event Proceeds (Item 4a)
- 2000 Euros – Expenses (Item 9a): 1024 Euros Manfred-Paul-Award, plus potential meeting organization

For 2024 we propose the same. The budget proposal was unanimously accepted.

Events:

No events took place in 2023. In previous years, we have had the following events:

- European Conference on Service-Oriented and Cloud Computing (ESOCC 2022) – WG 2.14
- Fundamentals of Software Engineering (FSEN 2023) – WG 2.2

6. Awards and distinctions

Manfred Paul award:

Manfred Paul award had only one candidate this year, but a good one. Jacques encourages more nominations, which is not that much work. At least one author has to be a member of a working group.

"Extraction of Validating Shapes from very large Knowledge Graphs" by Kashif Rabbani (Aalborg University), Matteo Lissandrini (Aalborg University), Katja Hose (TU Wien, Aalborg University), VLDB, 2023.

The Award process Timeline (as agreed in 2021) is as follows:
Award Selection Committee Solicitation email – 01 September
Award Selection Committee Volunteer deadline – 01 October
Award Submission Deadline 15 October
Award Announcement 10 December
We will propose the MP award winner for IFIP Select.

We encourage WGs to consider nominating work that is presented at the WG and generates a lot of discussion. The work should be published in 2023 or 2024.

IFIP awards:

Nominations open for Silver Core award and Service award possible until
July 15. WGs can nominate. The TC2 chair has to approve nominations.
IFIP Fellow Nominations for 2024 already closed.

Rustan Leino notes that it is hard to find the Fellow nomination page. Also when people get the award, they need a webpage that shows what the award is about. There is also a concern that the timeline is not clear.

There were no TC2 IFIP awards in 2023 and we have made no nominations in 2024.

There will likely be a new call from IFIP for people to be on the fellows committee, as current terms are expiring.

8. Reports of WG chairs

See attached reports.

2.1: Tried a hybrid approach, eg to help emeritus members. Only a couple people have participated remotely. Both new members approved (Pierre-Evariste Dagand and Niki Vazou).

2.2: Delia Kesner approved as a new member.

2.3: Two live meetings in the past year, no new members.

2.4: Two meetings in the last year, doing 2 live and one virtual. Took in 6 more people, to compensate for upcoming retirments. Maybe they should revisit the group description. All 6 new members approved (Jan Vitek, Alessandra Gorla, Cristian Cadar, Lin Tan, Jonathan Bell, and Yingfei Xiong).

2.5: New chair and vice chair, still looking for a secretary.
Two meetings, both hybrid, both having more online participants.
Good to have new people for officers, need to have new members.

2.6: 4 small meetings in the year

Question of why so few members for such a big research area. They are working on integrating more people.

2.7: Usually meet adjacent to the interact conference. Organized a workshop on teaching HCI in York. Have considered on whether their focus needs an update; will be considering the impact of AI.

Have organized 4 "live talks" on topics requested by the members. These are done online and are preserved on youtube.

New member Jan Van den Bergh approved.

2.8: No officer present. Niki Vazou approved a a new member.

2.9: Dalal Alrajeh approved as a new member.

2.11: Friedrich Steimann approved as a new member

2.13: Two virtual meetings, doubts about the future of their conference, and thus of the group. Jacques will discuss with them.

2.14: Also thinking about how to continue in the future. their community was very Europe based, but this community has somehow disappeared. used to meet with service oriented and cloud computing, but this conference is attracting fewer people.

The group is working on streamlining the membership and looking for new members. They are working on putting together a Dagstuhl meeting to bring together the people in the field.

2.15: No representative present from the group. The group has not met recently.

2.16: the three retiring members will be emeritus members. All new members approved: Christos Dimoulas, Cyrus Omar, Tomas Petricek, Joe Politz, Ben Titzer, Tobias Wrigstad. They wonder if there is an upper limit in the number of members?

Response:
1. There is no maximum number of members for a group
2. There is no minimum either, but 5 active members is informally considered minimum viable. At that size, the 5 should be actively recruiting.

2.17: No one present.

8. WG proposal on AI

Should a group on generative AI be cross-listed with TC2?
Concern that the scope is too large to make sense. Proposition goes into depth in a wide range of areas.
Could there be a TC2 specific AI group? Could such a group be temporary, as the field will evolve a lot?
What is the question for us? Does TC2 want to be involved in some way?
There are lots of interactions between generative AI and software, especially the practice of software.
Question about who would be a member of such a group, and how many such people will attend more than once, due to the wide scope.
Encouragement to keep relevant TC chairs in the loop.

9. Future meetings and events

The next meeting is likely to be at the same time of year, due to information having arrived from IFIP and gives time to prepare for the GA meeting in September. There was support for continuing with online meetings for TC2.

10. Other issues

ESOCC and FSEN are expected to run in 2025
Rules around sponsorship are likely going to change, in a way that is not so favorable for small meetings.

Michael Goedicke and Jacques met with Springer about the AICT series. One could publish a book giving an overview of the topic of the group in this series.

Could be a venue for folklore knowledge.

12. Action items

12.1 Working group officers

According to IFIP Bylaws, Section 4.37:

> *The term of office of Working Group Chairmen and Vice-Chairmen shall be three years and may be renewed once only.*

Chairs or vice-chairs of the following groups have served for 6+ years and thus new officers should be elected: **WG 2.16** (chair and vice chair)

Chairs or vice-chairs of the following groups have served for 3 years and thus should be reelected or new officers should be elected: **WG 2.1** (chair), **WG 2.6** (vice chair), wg2.16 (chair and vice chair).

Here is a complete list of chairs and vice-chairs of the working groups of TC2. According to IFIP Bylaws, those with a red background should be replaced immediately. Yellow indicates the need to organize elections within the coming year. Underlined are new officers that have been elected by their WGs within the reported year and approved by TC2 during this meeting (see Sec. 6):

WG	Role	Person	Elected in	Years in office	Country
WG 2.1	Chair	Peter Höfner	2020	4	Australia
WG 2.1	Vice	Patrick Jansson	2023	1	Sweden
WG 2.2	Chair	Barbara König	2024	0	Germany
WG 2.2	Vice	Ugo Dal Lago	2024	0	Italy
WG 2.3	Chair	Rajeev Joshi	2024	0	US
WG 2.3	Vice	Sophia Drossopoulou	2024	0	UK
WG 2.4	Chair	Anders Møller	2024	0	Denmark
WG 2.4	Vice	Michael Pradel	2024	0	Germany
WG 2.5	Chair	Andrew Dienstfrey	2024	0	US
WG 2.5	Vice	Amparo Gil	2024	0	Spain
WG 2.6	Chair	Robert Wrembel	2020	4	Poland
WG 2.6	Vice	Paolo Ceravolo	2021	3	Italy
WG 2.7	Chair	Davide Spano	2022	2	Italy
WG 2.7	Vice	Anke Dittmar	2023	1	Germany
WG 2.8	Chair	Peter Thiemann	2023	1	Germany
WG 2.8	Vice	-	-	-	-
WG 2.9	Chair	Andrea Zinzman	2024	0	UK
WG 2.9	Vice	Travis Breaux	2024	0	US
WG 2.10	Chair	inactive			
WG 2.10	Vice	inactive			
WG 2.11	Chair	Jacques Carette	2019	5	Canada
WG 2.11	Vice	Jeremy Yallop	2023	1	UK
WG 2.13	Chair	Stefano Zacchiroli	2023	1	France
WG 2.13	Vice	Gregorio Robles	2023	1	Spain
WG 2.14	Chair	Stefan Schulte	2024	0	Netherlands
WG 2.14	Vice	Jacopo Soldani	2024	0	Italy
WG 2.15	Chair	Tiziana Margaria	2024	0	Ireland
WG 2.15	Vice	Natarajan Shankar	2024	0	US
WG 2.16	Chair	Tijs van der Storm	2018	6	Netherlands
WG 2.16	Vice	Heather Miller	2018	6	US
WG 2.17	Chair	Ina Schaefer	2023	1	Germany

12.2 TC2 web page

The new address of the web page is: https://wiki.uni-due.de/ifip/

It is based on MediaWiki

This is the web page that is referenced from the IFIP pages.

The website, mailing list etc are hosted on a virtual machine, and can be moved if that turns out to be necessary.

The mailing list is as follows: tc2@lists.kit.edu

Other action items:

- Michael Goedicke should present the effort in Germany on research data management.

The meeting ended at 17:19

Appendix: Attendance records (as of July 7, 2024)

The table below shows attendance records of country and WG representatives since 2003. Only names of the current representatives are shown. Because of this, for the TC2 members with known year of starting her/his duties (shown in column 'New in') the years that somebody else represented the body are shown in **dark** (see the sub-columns of 'Attendance'). Alternatively, for national representatives, the new representative is indicated under the old one, and for working group chairs, the name is just replaced.

Officers:		
Chair: (elected 2023)	Jacques	Carette
Vice Chair: (2019)	Michael	Goedicke
Vice Chair: (elected 2023)	Peter	Hoefner
Secretary (2012)	Julia	Lawall

Legend to 'Attendance':

+: Personally present at the meeting

r: Absent but **repr.** by someone else from the rep. body

p: Absent but indicated a **proxy** from TC2

a: Absent, not represented, no proxy but just an **apology**

-: Absent and no contact

X: Membership terminated

N: No representative

Represented body	Current representative			Attendance																						
Name	First name	Family name	New in	'03	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24
ACM	Jeremy	Gibbons	2013	-	p	-	-	-	-	-	a	+	p	p	a	+									
ACM	Will	Tracz	2016														+	a	+	+	p	+	+	+	+
Argentina (corresp.)	Marcelo	Frias		-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Australia	Paul	Bailes	2013	-	+	+	+	+	+	p	a	+		N	N	+	+	N	N							
Australia	Jo	Dalvean	2023																	-	N	N	N	+	+
Austria	Stefan	Biffl	2005	a	-	+	p	+	+	+	+	p	+	p	p	p	+	p	+	+	p	p	+	+	p
Belgium	Robert	Meersman		+	+	+	+	+	+	a	+	p	+	p	a		N	N	N	N	N	N	N	N	N
Brazil	Julio	Leite	2013											+	a	+	-	-	-	-	-	-	-	-	-
Bulgaria	Sylvia	Ilieva	2013	-	-	+	p	+	p	p	-	p	p	-	a	+	+	-	p	-	-	-	-	-	-
CLEI	Emilio	Insfran	2023	-	-	-	-	-	a	+	-	+	p	+	p	p	p	a	p	-	+	+	+	+	+
Czech Republic	Premek	Brada	2015	-	-	-	-	-	-	-	-	p	+	p	p	+	a	a	+	a	+	+	-	+	-
Denmark	Fritz	Henglein	202							+	+	+	+	N	N	N	N	N	N	X	X	X	X	+	+

			3																						
France	Charles	Consel	2012										p	-	-	-	-	-	-						
France	Julia	Lawall	2019																	+	+	+	+	+	+
Finland	Reima	Suomi															-	-	-	-	-	-	-	-	-
Germany	Michael	Goedicke	2008	a	+	a	a	+	+	+	+	+	+	+	+	+	+	+	+	+	+	p	+	+	+
Germany	Ina	Schaefer	2018																+	+	+	+	+	+	p
Germany	Manfred	Paul				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Hungary	Miklos	Biro		+	+	+	+	p	+	+	+	p	+	+	+	+	+	p	p	X	X	X	X	X	X
IEEE CS	Joe	Urban		+	a	a	a	-	a	-	+	a	X	X	X	X	X	X	X	X	X	X	X	X	X
India	Pankaj	Jalote	2009							-	-	-	-	-	-	-	a	-	-						
India	Bhanumati	Shekhar	2019																	-	-	-	-	-	-
Italy	Paolo	Ciancarini	2016?	-	a	-	r	-	+	-	a	+	a	-	-	-	-	a	-	-	+	+	+	-	+
Japan	Zhenjiang	Hu	2014	r	-	a	a	-	+	+	-	-	p	+	p	+	p	a							
Japan	Atsushi	Igarashi	2018																a	p	+	+	+	+	+
Netherlands	Johan	Jeuring	2013	-	-	+	a	-	-	+	a	p	p	+	a	-	+	a	+		+	+	a	-	
Netherlands	Wouter	Swierstra	2024																						+
New Zealand	Elizabeth	Kemp		-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poland	Jerzy	Nawrocki	2005	a	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Poland	Robert	Wrembel	2019																+	+	+	+	+	+	p
Portugal	Fernando	Brito e Abreu	2010							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia (corresp.)	Nenad	Stefanovic		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Slovakia	Maria	Bielikova	2008	a	-	-	-	-	+	a	p	+	+	p	p	+	+	a	p	p	+	+	+	+	+
Slovenia	Marco	Bajec																		-	-	-	-	-	-
South Africa	Bruce	Watson	2017	+	+	+	+	p	+	a	-	-	-	N	N	N	N	+	p	a	+	+	+	+	a
Spain	Antonio	Vallecillo	2006	p	+	-	+	p	p	+	p	+	+	p	+		p	p	N	X	X	X			
Sweden	Ivica	Crnkoic	2019																	a	+	+	N	N	
Sweden	Patrick	Janssen	2024																						-
Switzerland	Pascal	Felber	2012	a	+	+	r	+	p	+	+	+	p	p	a		+	p	p	N					
	Peter	Kropf	2020																		-	-	-	-	-
Ukraine	Nikolay	Siderov	2013											+	-		a	a	-	-	-	-	+	p	p
United Kingdom				p	p	+	+	+	+	+	p	p	-	N	N		N	N	N	N	N	N	N	N	N
WG2.01	Peter	Hofner	2020	a	-	a	+	-	-	r	p	+	p	r	a	+	r	a	r	a	r	r	+	+	+
WG2.02	Antonin	Kucera	2019	a	+	+	+	a	+	r	+	p	r	p	a	+	a	a	-	a	+	+	+	+	+
WG2.03	Rustan	Leino	2020	+	+	+	+	-	p	r	r	p	p	p	a		a	a	p	a	-	+	a	+	+
WG2.04	Philip	Levy	2019	r	r	r	r	+	p	+	r	+	r	+	r	+	r	r	r	r	+	r	+	+	+
WG2.05	Ronald	Cools	2012	+	a	a	r	a	p	p	p	p	+	p	a		a	a	p	a	+	+	+	+	+
WG2.06	Robert	Wrembel	2020	+	r	+	p	p	+	+	+	+	+	+	a		+	a	+	r	+	+	+	+	r
WG2.07	Davide	Spano	202	a	+	a	a	-	p	r	a	a	a	a	a	a	a	+	a	a	+	+	-	+	+

			2																												
WG2.08	Peter	Thiemann	2023	a	a	-	p	-	-	p	p	p	p	p	-	-	-	-	a	a	-	-	-	+	-						
WG2.09	Andrea	Zinsman	2024	a	a	+	+	+	+	+	+	p	+	+	+	a	p	a	+	+	-	-	-	+	+						
WG2.10	Philippe	Kruchten	2013	a	a	a	a	a	+	-	+	p	+	-	-		-	-	-	-	-	-	+	-	N						
WG2.11	Jacques	Carrette	2019	-	+	a	r	+	+	r	r	+	+	+	+	p	+	r	r	r	r	+	+	+	+						
WG2.12	Elizabeth	Chang	2012	-	+	+	+	+	+	p	a	+	a	-	-	-	-	-	-	X	X	X	X	X	X						
WG2.13	Stefano	Zacchiroli	2023				+	+	+	+	+	p	p	a	a		a	+	r	+	+	+	+	p	-						
WG2.14	Stefan	Schulte	2024									a	p	a	a		-	-	r	a	+	a	+	+	+						
WG2.15	Jim	Woodcock	2020								a	p	a	-	a		a	a	-	-	r	-	a	p	-						
WG2.16	Tijs	Van der Storm	2018									+	p	p	p	a	a	a	-	a	-	-	+	+	+						
WG 2.17	Ina	Schaefer	2023																						p						
			Total: +	7	12	15	13	13	18	15	13	16		12	7		12	8	8		18	19			19						
			Total: r	2	2	1	5	0	0	5	3			1	1		2	2	5		3	2			2						
			Total: p	2	2	1	4	4	9	5	6	15		12	4		4	4	8		2	2			4						
			Total: a	11	7	9	7	3	2	2	7	3		3	11		10	17	3		0	1			1						
			Total: -	16	15	13	11	20	8	12	11	8		12	13		13	13	16		17	16			26						